

A close-up, artistic photograph of a DJ mixer. A pair of white headphones with black ear pads is resting on the mixer's surface. The scene is illuminated with vibrant purple and blue light, creating a moody, high-tech atmosphere. The background is blurred, showing various knobs and sliders of the mixer.

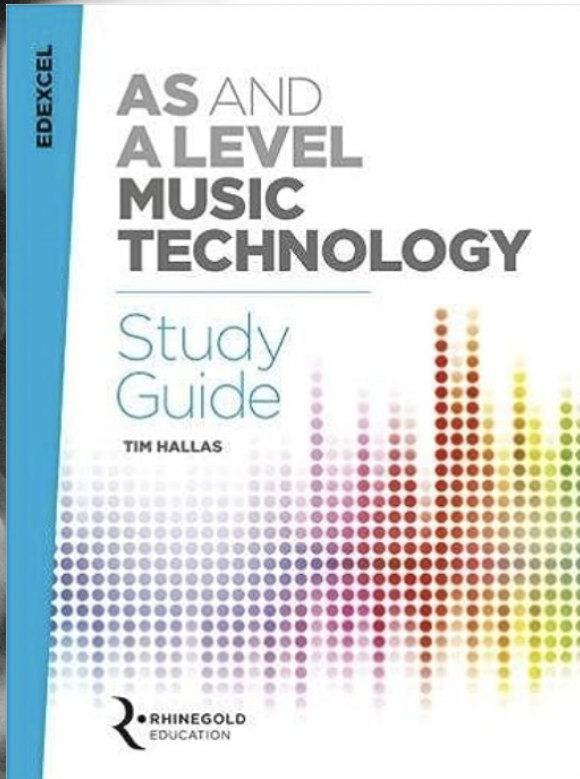
Music Technology

Week 4



Music Technology Contents

- Review Homework
- **Listening**
- Sound Gym
- **Mix 2**
 - Gain structure
 - Levels
 - File Management
 - Panning/ Stereo



Textbook + Folder

- Go to the library and get a copy of: Music Technology Study Guide
- Get a Folder to hold all of your paperwork
- Bring a pen and paper or notebook to the lessons.

Listening Exercise – Captain Beefheart



Take notes for the homework.

- Instrumentation?
- Panning?
- Effects? E.g. Delay
- Recording Process in 1974 (e.g. Mono, Multitrack Tape, Digital) and the impact.



Acoustic recordings
1877



Electronic Mics 1925



Magnetic tape 1945



Digital 1975

Dynamic Processing

- Compressor
- Limiter
- Gate
- Expander



Listening Exercise – Tomorrow Never Knows

- Dynamic Processing?
 - Use of Tape?
 - Production Techniques?
 - Recording process?
 - Effects?
-
- Watch the sound from 13.40



SUPER DELUXE

Listening Exercise – A Little You 1955

- Recording process?
- Characteristics of a 1950s recording?
- Instrumentation
- Dynamic Processing?
- Production Techniques?
- Effects?
- Mastering?
- Modern Remastering?



Listening Exercise – A Little You

- The U 47, introduced in 1949, was a technical revolution and is still considered the indisputable reference for perfect sound. With its well-balanced, extremely vivid response and excellent low-noise performance, this tube microphone raised the bar to a whole new level. Although production had to be discontinued in 1965, the U 47 has remained an extremely sought-after studio microphone that no world-class studio should be without.
- The U 47 is the first Neumann microphone developed after the Second World War. Instead of reissuing pre-war models, Georg Neumann decided to make a fresh start, as tube technology in particular had made enormous progress. This meant that the housing could be designed relatively compact – by the standards of the time. Electronic polar pattern switching between cardioid and omnidirectional was a complete novelty. Swapping capsule heads was no longer necessary, and the capsule could be integrated into the microphone housing. This was the birth of the modern studio microphone.



Listening Exercise – Praise You

- Fatboy Slim used Akai S950 samplers on his 1999 hit song "Praise You".
- The song features a prominent vocal sample from the opening of "Take Yo' Praise" by Camille Yarbrough, as well as a prominent piano sample from the track "Balance and Rehearsal" from a test album entitled Sessions released by audio electronics company JBL in 1973.



Listening Exercise – Praise You

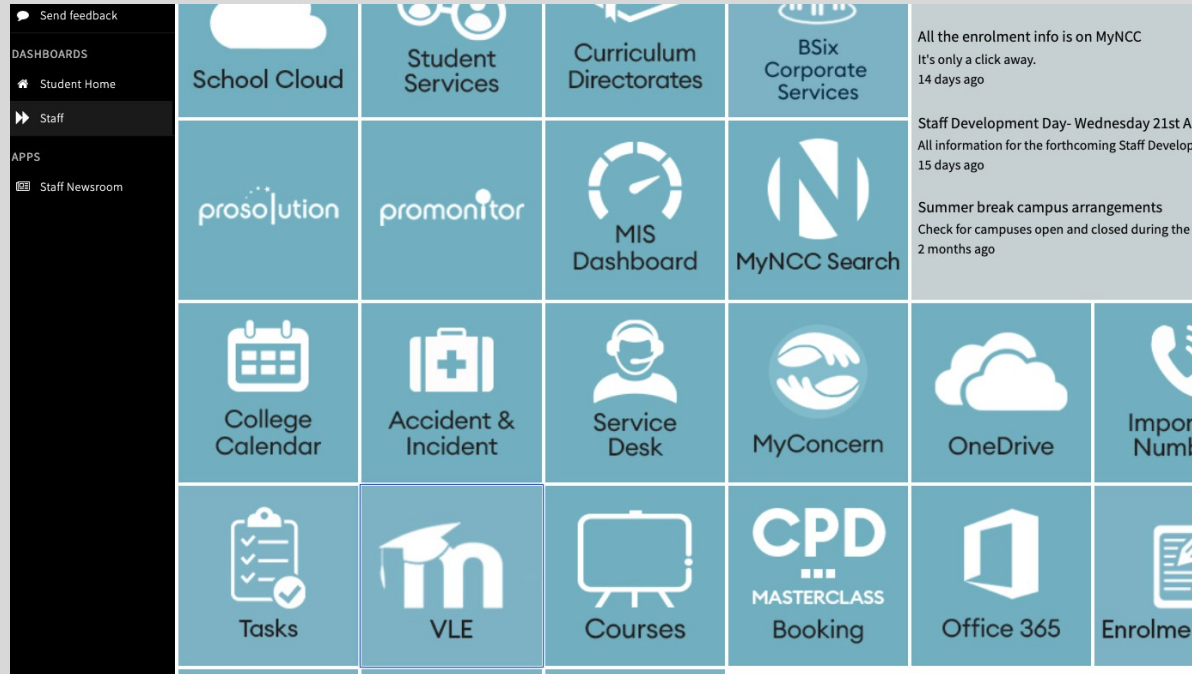
- What are sample rates?
- Audio sampling is the process of transforming a musical source into a digital file. Digital audio recording does this by taking samples of the audio source along the soundwaves at regular intervals. The more samples you take - known as the 'sample rate' - the more closely the final digital file will resemble the original. A higher sample rate tends to deliver a better-quality audio reproduction.
- The audio bit depth determines the number of possible amplitude values we can record for each audio sample.



Listening Exercise – Praise You



Mixing Task



What is the Aim of Mixing?

Exporting a mix.

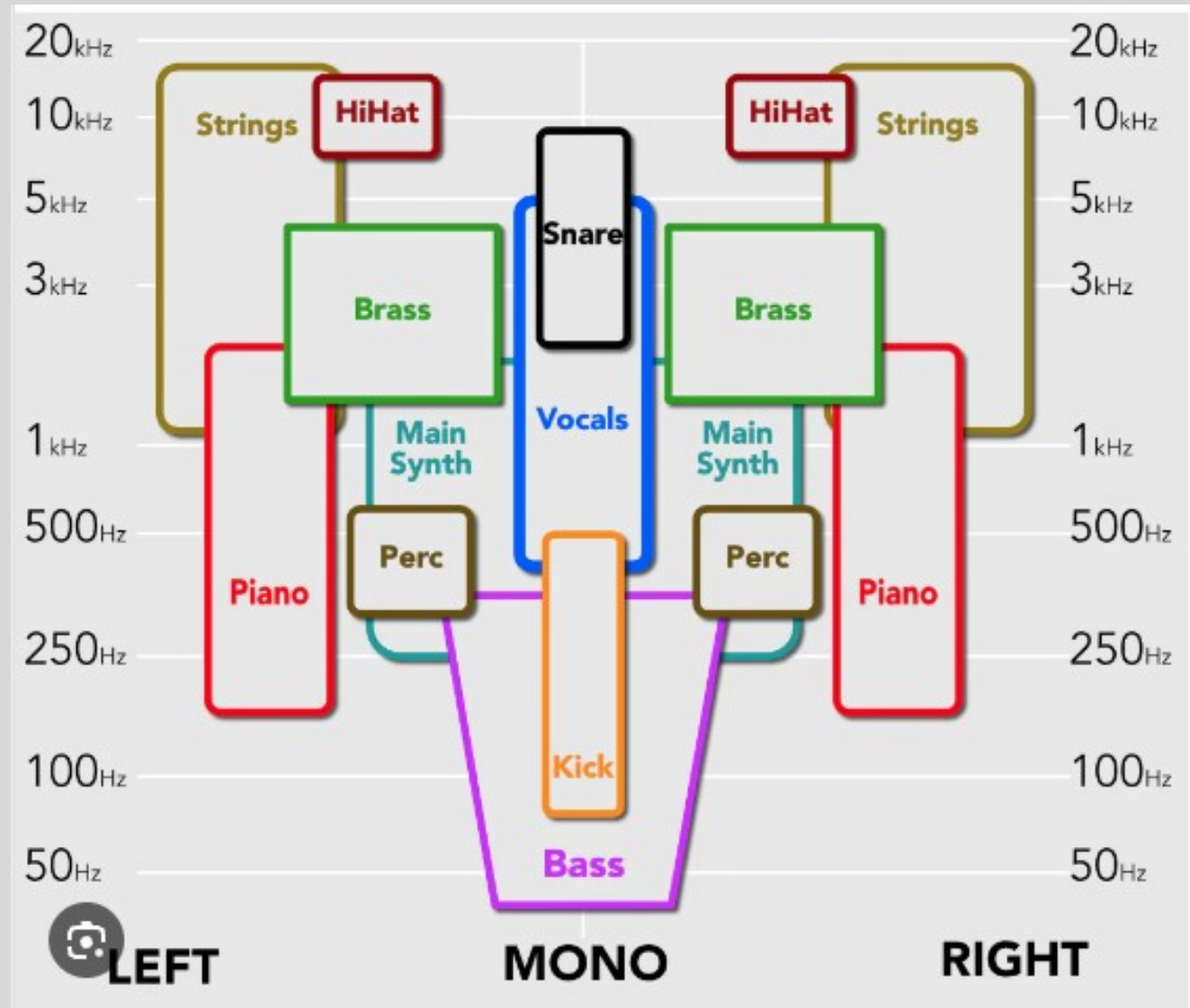


URL

Mixing Practice - Quarantine 



Mixing



Mixing Task

- Download the zip file from the vle
- Create a folder on the desktop called 'my father never loved me'
- Put the zip file in there and expand.
- Create a logic project and save it into the same folder
- Import the audio files (drag and drop)
- Balance the faders (turn them all down the bring them up slowly one at a time)
- Pan the instruments
- Export the mix (16bit Wav)

Sound Gym

- Go to Soundgym
- Create an account with a non-college email e.g. gmail



SoundGym

<https://www.soundgym.co> ⋮

SoundGym | Audio Ear Training Online

SoundGym provides institutes, teachers and students the ultimate online ear training, learning and communicating. Learn more. Audio ...

Login

Gym - Soundcoins Store - Recover your password - Beat Training

Free School

Learning programs curated by sound experts. Learn complete ...

Gym Your daily audio workout

EQ Playground - Peak Master - EQ Mirror - EQ Knight - EQ Cheetah

EQ Playground

Master equalization for faster, more accurate EQ decisions.

Lets Start Training

Create a free account and start training your ears!

[More results from soundgym.co »](#)



Mixing

- Download the zip folder from the VLE
- Enrol on the sound gym mixing and mastering course; watch the videos that fit with what you need.
- Practice mixing.

Sound Gym

- Navigate to the learn section and enrol on mix and mastering

 Dashboard Gym **Learn** Stats Contests  

Mix & Mastering (info & settings)



91.7%

Progress

[See stats & progress](#)



25553

Learning Pts.

[How You Compare](#)



1,630,591

SPI

[See profile](#)



✓

Certification



Program completed!

Watch video

V

Pass the Quiz

V

Win award

V

Progress

Homework

- Watch the videos for topic 3 for homework.
- Do the moodle/vle quiz

Topic #4: Time Domain Effects (8)

42 min

	What are time domain (delay) effects?		4 min
	Tape delay part 1 - concepts & interconnection		4 min
	Tape delay part 2 - the 5 parameters		6 min
	Slap Delays Tips and Tricks		7 min
	Vocal Delay Effect Tricks and Tips		5 min
	Phasing, flanging and chorus time domain effects		3 min
	ADT & slapback time domain effects		3 min
	Conventional echo and delay time domain effects		5 min

Component 3 - Listening and Analysing



Screenshot 2024-09-09 at 13.10.38.png

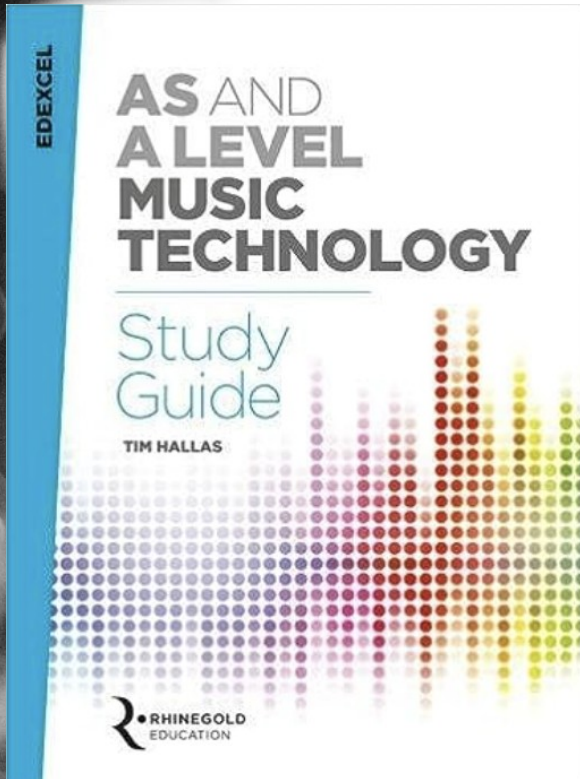
QUIZ
C3-AS-2017-Q1

QUIZ
C3-AS-2017-Q2

QUIZ
C3-AS-2017-Q3

QUIZ
C3-AS-2012-Q4

Hidden from students



Vocab test

- Learn key terms from p161 in the glossary